Reference Number: 6112 Kelaty House

ELECTRICAL INSTALLATION CERTIFICATE

(REQUIREMENTS FOR ELECTRICAL INSTALLATIONS - BS7671 (IET WIRING REGULATIONS))

1 Details of the Installation

Details of the Client:

Watkin Jones
Unit 55
Ffordd William Morgan
St Asaph Business Park
Saint Asaph LL17 0JG

Installation/Address:

Pavilion Court
20 First Way
Wembley
London
HA9 0PE

Extent of installation covered by this certificate: New Installation ✓ An addition An alteration

Whole

2 Design Declaration

I/We being the person(s) responsible for the design of the electrical installation (as indicated by my/our signatures below), particulars of which are described above, having exercised reasonable skill and care when carrying out the design hereby CERTIFY that the design work for which I/we have been responsible is to the best of my/our knowledge and belief in accordance with BS7671:2018, amended to 2018 (date) except for the departures, if any, detailed as follows.

The extent of liability of the signatory is limited to the work described above as the subject of this certificate.

Details of departures, if any, from BS7671:

None

Details of permitted exceptions to 411.3.3 (Socket RCD Protection): Where applicable, a suitable risk assessment must be attached. Risk Assessment attached: N/A

None

Signature:		Date:	14/04/2021	Name:	MARK WAVELL	Designer 1
Signature:		Date:		Name:		Designer 2

3 Construction Declaration

I/We being the person(s) responsible for the construction of the electrical installation (as indicated by my/our signatures below), particulars of which are described above, having exercised reasonable skill and care when carrying out the construction hereby CERTIFY that the construction work for which I/we have been responsible is to the best of my/our knowledge and belief in accordance with BS7671:2018, amended to 2018 (date) except for the departures, if any, detailed as follows.

The extent of liability of the signatory is limited to the work described above as the subject of this certificate.

Details of departures, if any, from BS7671:

None

Signature:		Date:	14/04/2021	Name:	PAUL MACMILLAN	Constructor

4 Inspection & Testing Declaration

I/We being the person(s) responsible for the inspection & testing of the electrical installation (as indicated by my/our signatures below), particulars of which are described above, having exercised reasonable skill and care when carrying out the inspection & testing hereby CERTIFY that the work for which I/we have been responsible is to the best of my/our knowledge and belief in accordance with BS7671:2018, amended to 2018 (date) except for the departures, if any, detailed as follows.

The extent of liability of the signatory is limited to the work described above as the subject of this certificate.

Details of departures, if any, from BS7671:

None

Signature:		Date:	14/04/2021	Name:	DENIS PATEL	Inspector

Results of the inspection and testing reviewed by:

Signature:		Date:	14/04/2021	Name:	PAUL MACMILLAN	Qualified Supervisor

5 Next Inspection

I/We the designer(s), recommend that this installation is further inspected and tested after an interval of not more than 5 years

Reference Number: 6112 Kelaty House

Particulars of Signatories 6

Designer 1

Name: ProMEP

CPS Provider*: NICEIC

CPS Registration No*: 07027001

Company/Address including postcode:

3rd Floor
Queensberry House
106 Queens Road
Brighton BN1 3XF

Designer 2 (if applicable)

Name: N/A

CPS Provider*:

CPS Registration No*:

Company/Address including postcode:

N/A

Constructor

Name: ProMEP

CPS Provider*: NICEIC

CPS Registration No*: 07027001

Company/Address including postcode:

3rd Floor
Queensberry House
106 Queens Road
Brighton BN1 3XF

Inspector

Name: ProMEP

CPS Provider*: 07027001

CPS Registration No*: NICEIC

Company/Address including postcode:

3rd Floor
Queensberry House
106 Queens Road
Brighton BN1 3XF

* Enter the name of the competent person scheme (CPS) provider and the companies registration number where available.

Supply Characteristics & Earthing Arrangements 7

System Earthing Arrangement: TN-C

Other Sources of Supply (to be detailed on attached schedules): N/A

Supply Polarity: ✓

Supply Protective Device

BS(EN): 60947

Type: ACB

Rating: 1600 A

Breaking capacity: 80 kA

No. & Type of Live Conductors:

Nominal Voltage(1) U_0: 230 V U: 400 V

Nominal Frequency, f(1): 50 Hz

External Loop Impedance, Z_e(2): 0.03 Ω

Prospective Fault Current, I_{pf}(2): 6.74 kA

(1) By Enquiry

(2) By Enquiry or by measurement

Particulars of the Installation 8

Maximum Demand (Load): 1200 A

Fault Protection: ADS

Means of Earthing

Distributors Facility: ✓

Installation Earth Electrode: N/A

Electrode Details (if applicable)

Type: NONE

Location: N/A

Resistance to Earth: N/A Ω

Main Protective Conductors

Earthing Conductor:

Material: Copper Csa: 300 mm² Continuity & Connection: ✓

Main Protective Bonding Conductor:

Material: Copper Csa: 50 mm² Continuity & Connection: ✓

Main Switch or Circuit-breaker

Location: Main Panel / Main Switch Room

BS(EN): 60947

Type: B

Current Rating: 1600 A

No. of poles: 3

Voltage Rating: 800 V

RCD Operating current: N/A mA

RCD Rated time delay: N/A ms

RCD Operating time at $I_{\Delta n}$: N/A ms

Other Bonded Services: Water: ✓ Oil: N/A Gas: ✓ Steel: N/A Other: N/A

Comments on existing installation (In the case of an addition or alteration see Section 633)

NONE

Reference Number:
6112 Kelaty House

ProMEP
NICEIC APPROVED CONTRACTOR

Inspection Schedule (1)

1 - EXTERNAL CONDITION OF INTAKE EQUIPMENT

(Visual inspection only)

- ✓ Service cable
- ✓ service head
- ✓ Earthing arrangement
- ✓ Meter tails
- ✓ Metering equipment
- ✓ Isolator (where present)

2 - PARALLEL OR SWITCHED ALTERNATIVE SOURCES OF SUPPLY

- N/A Adequate arrangements where a generating set operates as a switched alternative to the public supply
- N/A • Dedicated earthing arrangement independent of public supply

- ✓ Adequate arrangements where a generating set operates in parallel with the public supply
- ✓ • Correct connection of generator in parallel
- ✓ • Compatibility of characteristics of means of generation
- ✓ • Means of automatic disconnection in the event of loss of public supply or voltage/frequency deviation beyond declared values
- ✓ • Means to prevent connection in the event of loss of public supply or voltage/frequency deviation beyond declared values
- ✓ • Means to isolate generator from the public supply system

3 - AUTOMATIC DISCONNECTION OF SUPPLY

- ✓ Protective earthing/bonding arrangements

Presence and adequacy of:

- ✓ • Distributor's earthing or installation earth electrode arrangement
- ✓ • Earthing conductor and connections, including accessibility
- ✓ • Main protective bonding conductors and connections, including accessibility
- ✓ • Provision of safety electrical earthing / bonding labels at all appropriate locations
- ✓ FELV - Requirements satisfied

4 - OTHER METHODS OF PROTECTION

BASIC AND FAULT PROTECTION

- ✓ SELV system, including the source and associated circuits
- N/A PELV system, including the source and associated circuits
- ✓ Double insulation
- ✓ Reinforced insulation

BASIC PROTECTION:

- ✓ Insulation of live parts
- ✓ Barriers or enclosures
- N/A Obstacles
- N/A Placing out of reach

FAULT PROTECTION:

- ✓ Non-conducting location
- N/A Earth-free local equipotential bonding
- N/A Electrical separation

ADDITIONAL PROTECTION

- ✓ RCD(s) not exceeding 30mA operating current
- ✓ Supplementary bonding

5 - DISTRIBUTION EQUIPMENT

- ✓ Security of fixing
- ✓ Insulation of live parts not damaged during erection
- ✓ Adequacy/security of barriers
- ✓ Suitability of enclosures for IP and fire ratings
- ✓ Enclosures not damaged during installation
- ✓ Presence and effectiveness of obstacles
- ✓ Presence of main switch(es), linked where required
- ✓ Operation of main switch(es), functional check
- ✓ Manual operation of circuit-breakers and RCD's to prove functionality
- ✓ RCD test button operation confirmed
- ✓ RCD(s) provided for fault protection, where specified
- ✓ RCD(s) provided for additional protection, where specified
- ✓ Overvoltage protection (SPD's) provided where specified
- ✓ SPD's confirmed functional
- ✓ Presence of RCD six-monthly test notice at or near origin
- N/A Presence of AFDD six-monthly test notice, where required
- ✓ Presence of diagrams, charts or schedules at or near each distribution board, where required
- N/A Presence of non-standard (mixed) cable colour warning notice at or near the appropriate distribution board, where required

✓ : Inspection has been carried out with satisfactory result. N/A : Inspection is not applicable to this item.

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ProMEP
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Inspection Schedule (2)

5 - DISTRIBUTION EQUIPMENT (continued)

Presence of alternative supply warning notice at or near:

✓	• The origin
✓	• The meter position, if remote from the origin
✓	• The distribution board to which the alternative/additional sources are connected
✓	• All points of isolation of ALL sources of supply
✓	Presence of next inspection recommendation label
✓	Presence of other required labelling
✓	Selection of protective device(s) and base(s): type and rating
✓	Single pole protective devices in line conductors only
✓	Protection against mechanical damage where cables enter equipment
✓	Protection against electromagnetic effects where cables enter ferromagnetic enclosures
✓	Confirmation that ALL conductor connections, including to busbars, are correctly located in terminals and are tight and secure

6 - CIRCUITS

✓	Identification of conductors
✓	Cables correctly supported throughout
✓	Examination of cables for signs of damage during installation
✓	Examination of insulation of live parts, not damaged
✓	Non-sheathed cables protected by conduit, ducting or trunking
✓	Suitability of containment systems (including flexible conduit)
✓	Correct temperature rating of cable insulation
✓	Adequacy of cables for current-carrying capacity with regard for the type and nature of the installation
✓	Adequacy of protective devices: type and fault current rating
✓	Presence and adequacy of circuit protective conductors
✓	Coordination between conductors and overload protective devices
✓	Wiring systems and cable installation methods with regard to the type and nature of the installation and external influences
✓	Cables concealed under floors, above ceilings, in walls/partitions, adequately protected against damage
✓	Provision of fire barriers, sealing arrangements so as to minimise the spread of fire
✓	Band II cables separated/segregated from Band I cables
✓	Cables segregated/separated from non-electrical services

Provision of additional protection by RCD not exceeding 30mA:

✓	• Socket outlets rated at 32A or less, unless exempt
N/A	• Mobile equipment not exceeding 32A for use outdoors
✓	• Cables concealed in walls at a depth of less than 50mm
✓	• Cables concealed in walls/partitions containing metal parts regardless of depth
N/A	• Circuits supplying luminaires within domestic premises

Termination of cables at enclosures:

✓	• Connections under no undue strain
✓	• No basic insulation of a conductor visible outside enclosure
✓	• Connections of live conductors adequately enclosed
✓	• Adequately connected at point of entry to enclosure (gland, bush etc)
✓	Suitability of circuit accessories for external influences
✓	Circuit accessories not damaged during erection
✓	Single-pole devices for switching or protection in line conductors only
✓	Adequacy of connections, including cpc's, within accessories and at fixed and stationary equipment

Inspections continue on the next page

✓ : Inspection has been carried out with satisfactory result. N/A : Inspection is not applicable to this item.

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NICEIC APPROVED CONTRACTOR

Inspection Schedule (3)

7 - ISOLATION AND SWITCHING

Isolators:

✓	• Presence and location of appropriate devices
✓	• Capable of being secured in the off position
✓	• Correct operation verified
✓	• The installation, circuit or part thereof that will be isolated clearly identified by location and/or durable marking
✓	• Warning notice posted in situation where live parts cannot be isolated by operation of a single device

Switching off for mechanical maintenance:

✓	• Presence of appropriate devices
✓	• Acceptable location
✓	• Capable of being secured in the off position
✓	• Correct operation verified
✓	• The circuit or part thereof to be disconnected clearly identified by location and/or durable marking

Emergency switching/stopping:

✓	• Presence of appropriate devices
✓	• Readily accessible for operation where danger might occur
✓	• Correct operation verified
✓	• The installation, circuit or part thereof that will be disconnected clearly identified by location and/or durable marking

Functional switching:

✓	• Presence of appropriate devices
✓	• Correct operation verified

8 - CURRENT-USING EQUIPMENT (PERMANENTLY CONNECTED)

✓	Suitability of equipment in terms of IP and fire ratings
✓	Enclosure not damaged/deteriorated during installation so as to impair safety
✓	Suitability for the environment and external influences
✓	Security of fixing
✓	Cable entry holes in ceilings above luminaires, sized or sealed so as to restrict the spread of fire
✓	Provision of undervoltage protection, where specified
✓	Provision of overload protection, where specified
✓	Adequacy of working space/accessibility to equipment

Recessed luminaires (downlighters):

N/A	• Correct type of lamps fitted
N/A	• Installed to minimise the build-up of heat

9 - LOCATIONS CONTAINING A BATH OR SHOWER (SECTION 701)

✓	30mA RCD protection for all LV circuits
✓	Where used as a protective measure, requirements for SELV or PELV met
✓	Shaver sockets comply with BS EN 61558-2-5 formerly BS3535
N/A	Presence of supplementary bonding conductors (if required)
✓	Low voltage (230v) socket outlets sited at least 3m from zone 1
✓	Suitability of equipment for external influences from installed location in terms of IP rating
✓	Suitability of equipment for installation in a particular zone
✓	Suitability of current-using equipment for particular position within the location

10 - OTHER PART 7 SPECIAL INSTALLATIONS OR LOCATIONS

List all other special installations or locations present, if any.
(Record separately the results of particular inspections applied.)

	N/A		*N/A*
	N/A		*N/A*
	N/A		*N/A*
	N/A		*N/A*

Inspected by:

Name: Date:

Position: Signature: .....

✓ : Inspection has been carried out with satisfactory result. N/A : Inspection is not applicable to this item.

ELECTRICAL INSTALLATION CERTIFICATE
GUIDANCE FOR RECIPIENTS

This safety certificate has been issued to confirm that the electrical installation work to which it relates has been designed, constructed, inspected and tested in accordance with British Standard 7671 (the IET Wiring Regulations).

You should have received an 'Original' Certificate and the contractor should have retained a duplicate. If you were the person ordering the work, but not the owner of the installation, you should pass this Certificate, or a full copy of it including the schedules, immediately to the owner.

The 'Original' Certificate should be retained in a safe place and be shown to any person inspecting or undertaking further work on the electrical installation in the future. If you later vacate the property, this Certificate will demonstrate to the new owner that the electrical installation complied with the requirements of British Standard 7671 at the time the Certificate was issued. The Construction (Design and Management) Regulations require that, for a project covered by those regulations, a copy of this Certificate, together with schedules, is included in the project health and safety documentation.

For safety reasons, the electrical installation will need to be inspected at appropriate intervals by a skilled person or persons, competent in such work. The maximum time interval recommended before the next inspection is stated on Page 1 under 'Next Inspection'.

This Certificate is intended to be issued only for a new electrical installation or for new work associated with an addition or alteration to an existing installation. It should not have been issued for the inspection of an existing electrical installation. An 'Electrical Installation Condition Report' should be issued for such an inspection.

This Certificate is only valid if accompanied by the Schedule of Inspections and the Schedule(s) of Test Results.